Types and Role of Operating System

Task 1 [10 marks]

There are four main types of operating system. These are real-time, single-user - single-task, single-user - multi-tasking, and multi-user operating systems. These are used in specific circumstances and have their features that make them appropriate for these circumstances. Identify these in the table below.

Type	Use	Feature
Real-Time		
Single-User, Single-Task		
Single-User, Multi-Tasking		
Multi-User		

Task 2 [4 marks]

Operating systems have a number of roles in ensuring your computer systems function. Two of the most important of these are the memory management and multi-tasking. Explain how the operating system performs these roles in a modern computer system.

Memory management

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Multi-tasking

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Task 3 [6 marks]

There are three additional roles that the operating system will perform to support the functioning of your computer systems. These are the networking, security & device drivers. Identify a feature of an operating system that supports each of these roles.

Role	Example
Networking	
Security	

Device Drivers	